

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,725	12/04/2003	John Paul Weirich		4004
75	90 09/08/2005		EXAM	INER
JOHN WEIRI	СН		KASZTEJNA, MA	ATTHEW JOHN
524 KENDALL	, #3			
PALO ALTO,	CA 94306		ART UNIT	PAPER NUMBER
,			3739	
			DATE MAIL ED: 00/09/2009	•

Please find below and/or attached an Office communication concerning this application or proceeding.

		A
	Application No.	Applicant(s)
Office Astion Commence	10/729,725	WEIRICH, JOHN PAUL
Office Action Summary	Examiner	Art Unit
	Matthew J. Kasztejna	3739
The MAILING DATE of this communication appeared for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 29 Oc	ctoher 2004	
	action is non-final.	
3)☐ Since this application is in condition for allowan		secution as to the merits is
closed in accordance with the practice under E.	•	
Disposition of Claims	.,,	
<u> </u>		
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 	n from consideration.	
8) Claim(s) are subject to restriction and/or	alastian requirement	
o) Claim(s) are subject to restriction and/or	election requirement.	
Application Papers		
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on <u>04 December 2003</u> is/ar Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	re: a)⊠ accepted or b)⊡ objecto Irawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage

Attachment(s)

1)	\square	Notice of	Refer	ences	Cited	(PI	TO-892)	
----	-----------	-----------	-------	-------	-------	-----	---------	--

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/25/04.

5) Notice of Informal Patent Application (PTO-152)
6) Other:

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

DETAILED ACTION

Claim Objections

Claims 3-20 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only and cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have been treated on the merits as best understood by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11-13 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 11-13 recites the limitations "electromagnetic wave emitter" and electromagnetic wave receiver in the stated claims. There is insufficient antecedent basis for this limitation in the claim.

Claims 16-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear what is being claimed in the stated claims.

Art Unit: 3739

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent No. 6,402,686 to Ouchi in view of U.S Patent No. 5,668,555 to Starr.

In regards to claims 1-2, Ouchi discloses an imaging system comprising: a swallowable capsule comprising: an observing system for imaging objects; and controlling circuitry means 14d that operatively regulates the imaging system; and a transceiver 14b to transmit imaging signals of the observation system and to receive controlling signals; and a power supply 14c for the imaging system (see Col. 4. Lines 8-61) but is silent with respect to the observing system comprising an ultra-wideband sensor system. Starr teaches of an analogous system used to provide imaging in the biologic sciences. The three dimensional imaging system utilizes a ultra-wideband radar circuit, a focused radar antennae, an erasable programmable read only memory means, a memory for storing translated signal and a CAD program means for processing translated signals into tree dimensional images (see Col. 2, Lines 33-53). It would have been obvious to one skilled in the art at the time the invention was made to use an ultra-wideband sensor system as the observing system in the apparatus of Ouchi n order to provide three dimensional images in real-time as taught by Starr (see Col. 1, Lines 26-39).

Art Unit: 3739

In regards to claims 3-6, Ouchi discloses an imaging system including a reception system 11, operatively connected to the imaging system, which receives the transmitted imaging signals comprising: a plurality of antennae; and a power supply; and storage means; and controlling circuitry means operatively connecting the parts of the reception system (see Col. 6, Lines 41-67).

In regards to claims 7-20, Starr teaches of a system including a programmable computer system operatively connected to the reception system and the imaging system, which processes the transmitted imaging signals saved in the storage means and controls the imaging system comprising: a computer system; and software programs which process the imaging signal data into various presentation formats; and software programs to issue instructions to the controlling circuitry means of the imaging system; and input means; and transmission means operatively connecting the computer system input means with the storage means of the reception system (see Col. 3, Lines 5-60 and Fig. 3). It would have been obvious to one skilled in the art at the time the invention was made to include a programmable computer system in the apparatus of Ouchi having computer aided design software to provide fine image resolution as taught by Starr. Furthermore, it is well-known in the art to use either UV or infrared LEDs in ultra-wideband radar sensor systems.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S Patent No. 5,668,555 to Starr in view of U.S Patent No. 6,402,686 to Ouchi in view of U.S Patent No. 6,428,469 to Iddan et al.

Application/Control Number: 10/729,725

Page 5

Art Unit: 3739

In regards to claims 1-2, Starr discloses an imaging system comprising: an observing system for imaging objects; and controlling circuitry means that operatively regulates the imaging system; and a transceiver to transmit imaging signals of the observation system and to receive controlling signals; and a power supply for the imaging system (see Col. 3, Lines 5-60 and Fig. 3) but is silent with respect to the system being provide within a swallowable capsule. Iddan et al. teaches of an analogous imaging system provided in an in-vivo autonomous video capsule (see Col. 1, Lines 30-57). It would have been obvious to one skilled in the art at the time the invention was made to provide the imaging system of Starr in a swallowable capsule to allow one to provide images throughout the entire gastro-intestinal tract as taught by Iddan et al. and is well known in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew J. Kasztejna whose telephone number is (571) 272-6086. The examiner can normally be reached on Mon-Fri, 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3739

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJK

9/6/05

BEVERLY M. FLANAGAN
PRIMARY EXAMINER